

VORONTYUK, B.A.

Increase the production of sesame, a valuable confectionery raw material. Khleb.i kond.prom. 1 no.7:20-22 J1 '57. (MIRA 10:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut konservnoy i ovoshchesushil'noy promyshlennosti.  
(Sesame)

VORONYUK, B.A.

Types of corn used as food. Kons.i ov.prom. 12 no.6:38  
Je '57. (MIRA 10:7)  
(Corn (Maize))

VORONYUK, B.A., kand. sel'skokhoz. nauk

Physical and mechanical properties of the seeds of oats and wild oats.  
Trudy VISKHOMa no.32:3-12 '62. (MIRA 12:1)

Agronomic evaluation of new highly productive grain cleaning machines.  
Ibid.1111-128

VORONYUK, N.B.

Effect of the level of contractile functions of the heart on the  
production of sympathetic effects. Trudy Inst.norm.i pat.fiziol.  
AMN SSSR 7:33-34 '64. (MIRA 18:6)

1. Laboratoriya fiziologii i patofiziologii miokarda (zav. -  
doktor med.nauk F.Z.Meyerson) Instituta normal'noy i patologiche-  
skoy fiziologii AMN SSSR.

ROZANOVA, L.S.; VORONUK, N.B.

Influence of the level of cardiac contractile function on the realization of the sympathetic effect. Biul. eksp. biol. i med. 60 no. 10:29-32 0 '65 (MIRA 19:1)

1. Laboratoriya fiziologii i patofiziologii miokarda (zav. - doktor med. nauk F.Z. Meyerson) Instituta normal'noy i patologicheskoy fiziologii (direktor - deystvitel'nyy chlen AMN SSSR V.V. Parin) AMN SSSR, Moskva. Submitted April 22, 1964.

VORONYUK, P.I.

AUTHOR  
TITLE

KLINGER, H.I., VORONYUK, P.I. 56-7-13/66  
Magnetoresistive Phenomena in n-Ge Type Semiconductors  
located in Strong Magnetic Fields.  
(Gal'vanomagnitnyye yavleniya pri sil'nykh magnitnykh  
polyakh v poluprovodnikakh tipa n-Ge.- Russian)  
Zhurnal Eksperim. i Teoret. Fiziki 1957, Vol 33, Nr 7  
pp 77-87 (USSR)

PERIODICAL

ABSTRACT

The present paper investigates the equilibrium concentration of the electrons, HALL'S constant, and the electrical resistance in semiconductors of the type of n-Ge in the presence of a strong magnetic field. Here the anisotropy of the mass of the electron in strong magnetic fields is taken into account. The computation of current intensity: The electric  $\vec{E}$  is assumed to be directed along the X-axis and the vertical magnetic field  $\vec{H}$  along the Z-axis. The author here computes the components of the electric current intensity  $\vec{j}$  for crossed electric and magnetic fields by the method of steady states. For this purpose the energy spectrum of the electron with anisotropic mass has to be determined. As a mechanism for the scattering of electrons the interaction of an electron with a longwaved longitudinal acoustic phonon is investigated.

CARD 1/2

Magnetoresistive Phenomena in n-Ge Type Semiconductors  
located in Strong Magnetic Fields.

56-7-13/66

The next chapter deals with the exponential anisotropy  
of the concentration of the current carriers. In con-  
clusion expressions are determined for the electric  
resistance and for HALL'S constant in a strong magnetic  
field. At increasing  $\hbar\omega_c/kT$   $R$  and  $q_H$  increase  
rapidly, namely like  $(\hbar\omega_c/4kT)$ .

The electric resistance and HALL'S constant have an  
important anisotropy because they depend upon the  
direction of the magnetic field (HALL'S constant  
depends also upon the direction of the electric field).  
All results obtained here are valid for unipolar ad-  
mixture semiconductors without degeneration of the  
electron gas. (With 2 Illustrations)  
Chernovtsy State University, Institute for Semiconduc-  
tors of the Academy of Sciences of the U.S.S.R.  
(Chernovitskiy gosudarstvennyy universitet, Institut  
poluprovodnikov Akademii nauk SSSR)

ASSOCIATION:

PRESENTED BY:

SUBMITTED:

AVAILABLE:

CARD 2/2

19.11. 1956

Library of Congress.

VORONYUK, P. I.

AUTHORS: Klinger, M. I., Voronyuk, P. I.

57-27-7-33/40

TITLE: Galvanomagnetic Phenomena in n-Ge or n-Si Monocrystals in Strong Magnetic Fields (Gal'vanomagnitnyye yavleniya v monokristalle n-Ge ili n-Si pri sil'nykh magnitnykh polyakh).

PERIODICAL: Zhurnal Tekhnicheskoy Fiziki, 1957, Vol. 27, Nr 7, pp. 1609-1613 (USSR)

ABSTRACT: The electric resistance  $\rho_H$  in a transverse magnetic field  $H$  and the Hall-constant  $R$  in strong fields  $H$  in a monocrystal of the type n-Ge or n-Si are investigated here. The conductivity-electron in Ge or Si is a quasi-particle with an anisotropic mass ( $m_1$  - transverse mass,  $m_2$  - longitudinal mass), its surfaces of the constant energy are ellipsoids of revolution of which eight are present in Ge and six in Si. In a magnetic field the energy-spectrum of these conductivity-electrons is quantized and in sufficiently strong  $H$  this effect plays an important part. In the calculation  $\rho_H$  and  $R$  this effect and the anisotropic character of the electron-mass (in the present paper) are taken into account.

Card 1/3



Galvanomagnetic Phenomena in n-Ge or n-Si Monocrystals in Strong Magnetic Fields 57-27-7-33/40

It is shown that  $q_H$  and  $R$  rapidly increase with increasing  $\frac{H}{T}$ , just as in an isotropic case. What is new in comparison with an isotropic case is that the quantities  $N$ ,  $R$  and  $q_H$  are highly anisotropic.  $N$  - the electron-number density of the ellipsoid. It is shown that the anisotropy of the quantities  $q_H$  and  $R$  is the distincter the higher the anisotropy of the mass

$$\ell = \frac{m_2}{m_1}$$

But as the anisotropy  $N(H, T)$  is the determinant element, not only  $q_H$  and  $R$  but also other equilibrated kinetic coefficients are exponentially anisotropic. There are 4 references, 3 of which are Slavic.

Card 2/3

Galvanomagnetic Phenomena in n-Ge or n-Si Monocrystals in  
Strong Magnetic Fields

57-27-7-33/40

ASSOCIATION: Institute for Semiconductors AS USSR; State University of  
Chernovtsy (Institut poluprovodnikov AN SSSR,  
Chernovitskiy gosudarstvennyy universitet).

SUBMITTED: January 28, 1957

AVAILABLE: Library of Congress

1. Single crystals-Electrical properties
2. Germanium-Electrical properties
3. Silicon-Electrical properties

Card 3/3

Magnetic properties of semiconductors. K. D. Tovstyuk.

- This presentation consisted of the following papers:

- Anisotropy of susceptibility of semiconductors. K. D. Tovstyuk, E. I. Slynko, I. M. Stakira, O. M. Boretz.

Magnetic and thermomagnetic properties of HgTe, PbTe, HgSe, PbSe. K. D. Tovstyuk, M. P. Gavaleshko, Ya. S. Budzhak, P. M. Starik, P. I. Voronyuk.

Magnetic susceptibility of CdTe and ZnTe. I. V. Potykevich, A. V. Savitskiy.

Magnetic properties of the system HgTe-CdTe. K. D. Tovstyuk, I. M. Rarenko, I. V. Potykevich.

Anisotropy of the thermal conductivity of CdSb. I. M. Pilat, L. I. Anatychyuk.

Electrical, magnetic, and optical properties of the system In<sub>2</sub>Te<sub>3</sub>-CdTe. I. V. Potykevich, A. I. Beiyayev, S. V. Chapura.

Properties of crystals of CdSb doped with elements of groups IV and VI. S. M. Gusev.

Thermomagnetic and magnetic properties of PbSe. Ya. S. Budzhak.

Certain anomalous properties of p-type PbTe. P. M. Starik,  
P. I. Voronyuk.

Galvanomagnetic and thermomagnetic effects in HgTe. N. V. Gavaleshko.

Production and electrical properties of HgSe and the system HgSe-HgTe.  
I. M. Rarenko, V. M. Nikitenko.

Electrical properties of  $\text{In}_2\text{Se}_3$ . I. M. Stakhira, A. N. Borets.

Report presented at the 3rd National Conference on Semiconductor Compounds,  
Kishinev, 16-21 Sept 1963

ACCESSION NR: AP4012028

S/0185/64/009/001/0026/0031

AUTHOR: Staryk, P. M.; Voronyuk, P. I.

TITLE: Impurity levels in p-type PbTe

SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 9, no. 1, 1964, 26-31

TOPIC TAGS: current carrier, impurity, impurity atom, Hall effect, acceptor, impurity conductivity, impurity level, acceptor level

ABSTRACT: This work was carried out to determine why the annealing of PbTe crystals of the p-type at low temperatures causes great changes in their properties. The Hall effect and electric conductivity were measured on annealed single-crystal samples with a current carrier concentration of about  $10^{16} \text{ cm}^{-3}$ . A temperature dependence of the Hall effect is found in the region of impurity conductivity. This dependence is sufficiently well explained by the presence of two types of acceptor levels: shallow ones, assumed to be made up of excess Te atoms, with an activation energy  $\Delta E$  of about 0, the concentration of which changes during annealing, and relatively deep ones with  $\Delta E = 0.04 \text{ ev}$ , the concentration of which is unchanged during annealing. It is concluded that the deep levels are evidently

Card 1/2

ACCESSION NR: AP4012028

formed by impurity atoms and play a certain part in current carrier scattering at low temperatures. Orig. art. has 6 formulas, 5 figures and 1 table.

ASSOCIATION: Chernivets'ky'y Derzhuniversy\*tet (Chernovtsy State University)

SUBMITTED: 17Jun63

DATE ACQ: 14Feb64

ENCL: 00

SUB CODE: PH

NO REF SOV: 001

OTHER: 002

Card 2/2

**"APPROVED FOR RELEASE: 03/14/2001**

**CIA-RDP86-00513R001861010013-0**

**APPROVED FOR RELEASE: 03/14/2001**

**CIA-RDP86-00513R001861010013-0"**

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L 14615-66 ENT(1)/ENT(m)/ENG(m)/T/EMP(t)/EMP(b) LJP(c) RW/JD/OG  
ACC NR: AT6002262 (N) SOURCE CODE: UR/2564/65/006/000/0281/0283

AUTHOR: Starik, P. M.; Voronyuk, P. I.

ORG: none

TITLE: Growing of PbTe single crystals by the Czochralski method [Paper presented at the  
Third Conference on Crystal Growing held in Moscow from 18 to 25 November, 1963]

SOURCE: AN SSSR. Institut kristallografi. Rost kristallov, v. 6, 1965, 281-283

TOPIC TAG: lead compound, telluride, single crystal growing

ABSTRACT: PbTe single crystals were grown at pressures from 1.5 to 5 atm in argon in an apparatus customarily employed for the Czochralski method. The composition of the crystallizing phase differed from that of the melt: the latter was richer in lead. Liquation was thought to play an important part during the crystal growth. The major part of the crystal had p-type conductivity; only the lowest part had n-type conductivity. The crystals obtained were 15 mm in diameter and up to 30 mm long. The direction of growth coincided with the [100] direction. The pulling rate was about 10 mm/hr, and the rotation rate of the

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ACC NR: AT6002262

seed, 30 rpm. Measurements on p-type crystals showed that in the direction of growth they had a low resistance gradient. In the radial direction the inhomogeneity did not exceed 3%. The carrier concentration in p-type samples was  $3-4 \times 10^{18} \text{ cm}^{-3}$ . Orig. art. has: 3 figures.

SUB CODE: 20 / SUBM DATE: none / ORIG REF: 001 / OTH REF: 003

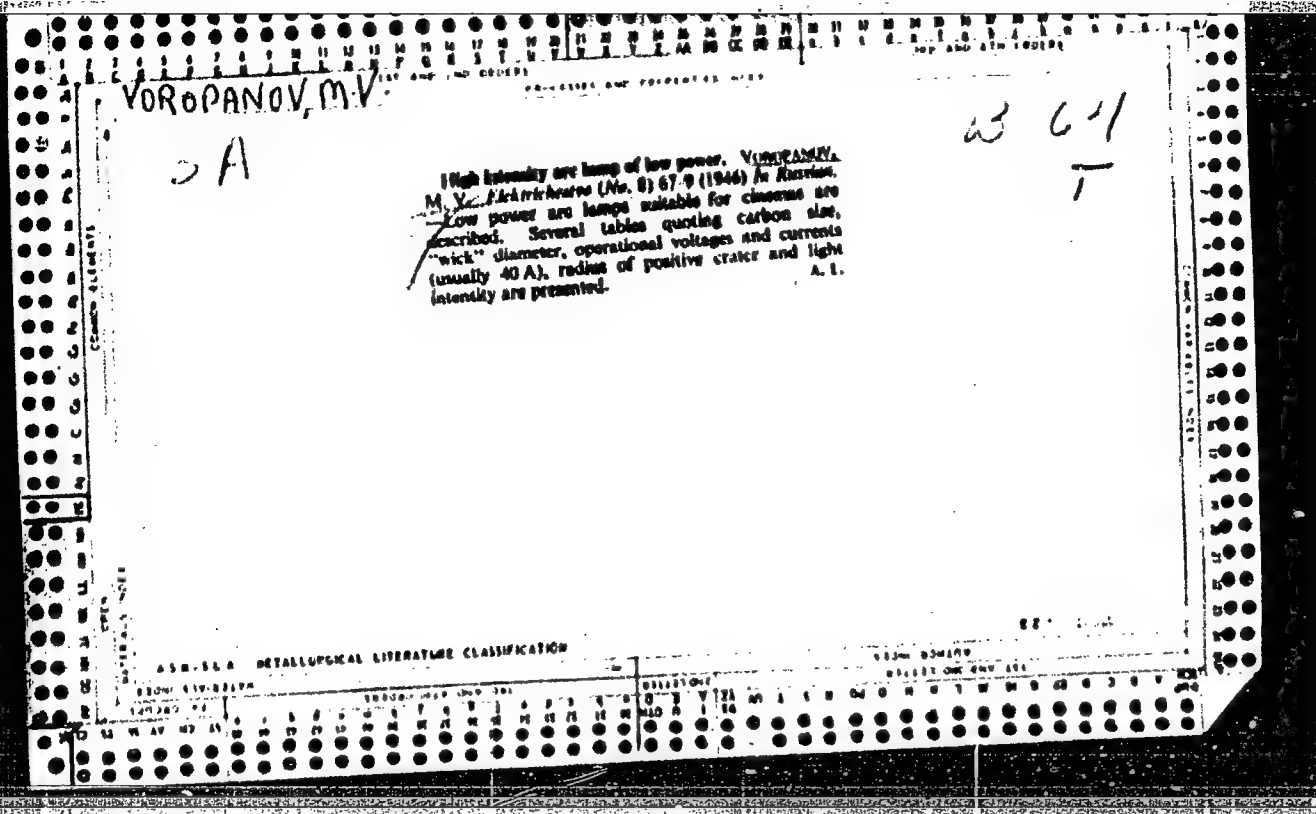
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Card 2/2

1ST AND 2ND ORDER										PROCESSES AND PROPERTIES INDEX										3RD AND 4TH ORDER									
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3765. THERMO-DYNAMIC METHOD OF DETERMINING DEPRESSION DUE TO NATURAL DRAUGHT IN MINE SHAFTS. Voropaiv, A.F. (Gornyi Zhurnal (Min. J.), 1949, (7), 21-26). (L).																													
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MAGYAR KOZLEKEDÉS, MÉLY-ÉS VÍZÉPÍTÉS -- COMMUNICATION AND CIVIL ENGINEERING IN HUNGARY VOL. II. -- 1950 No. 10, Oct.																																																																																																																																																	
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1ST AND 2ND COLUMNS		PROCESSING AND PREPARATION INDEX	
<p>4</p> <p>MELEPESTUDOMANYI SZEMLE CIVIL ENGINEERING REVIEW VOL. 1. - 1951 NO. 1, Jan.</p> <p>36</p> <p>J. Voropajev Drying colloidal steel pipes by means of vibration and excavation by means of vibroacoustic pipes</p>		<p>ASB. S. A. METALLURGICAL LITERATURE CLASSIFICATION</p> <p>621.72.00.01</p>	

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<div style="display: flex; justify-content: space-between;"> <span>24</span> <span>26</span> </div> <p>Magyar Kozlodesz, Mely-Es Viseptes            Communication and civil engineering in Hungary            vol. II 1950            no. 11, november</p> <p>I. Voropajev:            Stikhanovite working methods II ..... 1 12</p>																			
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USSR/Electricity - Carbon-Arc Discharge Feb 52

"A New Method for Regulating the Degree of Development of a High-Intensity Electric Arc," M. V. Voropanov, Cand Tech Sci, Sci Res Inst of the Min of Communications Equipment Ind

"Elektrichestvo" No 2, pp 56-59

Experimentally demonstrates the relationship between the development of a high-intensity arc and the type of carbon used in the holder. From this, proposes that the deg of development of the arc be regulated by changing the form of carbon in the

208T29

USSR/Electricity - Carbon-Arc Discharge Feb 52  
(Contd)

holder. Suggests that the different evaporability of the various carbon modifications is due to their different disperse structure. Submitted 21 Jun 51.

208T29

VOROPANOV, M. V.



TYURIN, A.V.; NAUMENKO, I.M.; VOROPANOV, P.V.

[Forestry handbook] Lesnais vspomagatel'naia knizhka. Moskva,  
Goslestekhnizdat, 1945. 407 p. (MIRA 12:3)  
(Forests and forestry--Mensuration)

Doc Agricult Sci

VOROPANOV, P. V.

Dissertation: "Natural History of the Fir-Groves of the North and Their  
Inner Structure." 22/5/50

Moscow Forestry Inst

SO Vecheryaya Moskva  
Sum 71

1. VOROPANOV, P.V., PROF.

2. USSR (600)

4. Forest Management

7. Answer to adherents of the "clean" practice in forest economy. Les. khoz.  
5 no. 11, 1952

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

VOROPANOV, P. V.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr. 1954)

<u>Name</u>	<u>Title of Work</u>	<u>Nominated by</u>
Voropanov, P. V.	"Spruce Forests of the North"	Povolzh'ye Forestry Engineering Institute imeni M. Gor'kiy

SO: W-30604, 7 July 1954

Voropanov, P.V.

USSR / Forestry, Forest Economy.

K-4

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001861010013-0"

Abb Jour: Ref Zhur - Biologiya, No. 1, 1958, 1347

Author : Voropanov, P.V.

Title : Relative Growth as an Index of the Tree's Relationship with the Surrounding External Medium

Orig Pub: Tr. Bryanskogo lesokhoz. in-ta, 1956, 7, 49-58

Abstract: The proposed method of determining the relative growth of vegetating trees is based upon the premise that in a growth of trees of the same age their physiological qualities will differ. To determine the relative growth by volume (according to the formula  $P_v = x P_d$ , where  $P_d$  is growth by the diameter) the author establishes the meanings of the undetermined factor  $x$  on the basis of a breakdown of the trees into six

Card 1/2

VOROPANOV, PETER

TYURIN, Aleksandr Vladimirovich, doktor sel'skokhozyaystvennykh nauk, profesor; NAUMENKO, Ivan Matveyevich, doktor sel'skokhozyaystvennykh nauk, professor; VOROPANOV, Petr Vasil'yevich, doktor sel'skokhozyaystvennykh nauk, professor; ANUCHIN, N.P., redaktor; KOLESNIKOVA, A., tekhnicheskiiy redaktor.

[A manual of forest mensuration] Lesnaya vspomogatel'naya knizhka; po taksatsii lesa. Pod obshchei red. A.V. Tiurina. Izd. 2-oe, dop. (MIRA 10:4)  
Moskva, Goslesbumizdat. 1956. 531 p.  
(Forests and forestry--Mensuration)

K-1

USSR / Forestry. General Problems.

Abs Jour: Ref Zhur-Biol., No 10, 1958, 43893

Author : Voropanov, P. V., Alkhromeyko, A. I.

Inst : Bryansk Forestry Institute

Title : The Effect of the Condition of Maternal Spruce  
Trees at Different Stages on the Heredity of  
Their Offspring. (Results of Studies Utilizing  
Tagged Atoms)

Orig Pub: Tr. Bryanskogo lesokhoz. in-ta, 1957, 8, 87-103

Abstract: This article describes studies (1954-1955) of P  
uptake by the sprouts from pine and spruce seeds,  
3-week old seedlings of these species and 2-year  
old spruce seedlings. The purpose of the study

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K-1

USSR / Forestry. General Problems.

Abs Jour: Ref Zhur-Biol., No 10, 43893

was to test the theory that it is possible to judge hereditary transmission of the ability for rapid growth by the rate of P absorption in the roots and the stems of the saplings and of the capacity to develop rapidly by the P content in the leaf organs. Phosphorus was labeled with its radioactive isotope  $P^{32}$ , the concentration of which comprised 0.05 millicuries per millimeter. Seedlings were grown from the seeds of mother trees in different stages. It was established that the 2-year old spruce seedlings from the seeds of those trees having rapid growth and slow development are characterized by a vigorous growth of the roots and stems and by an intense absorption of  $P^{32}$ . With advanced age in the maternal trees the growth

Card 2/3

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K-1

USSR / Forestry. General Problems

Abs Jour: Ref Zhur-Biol., No 10, 1958, 43893

of these parts in the offspring weakens and the absorption of P32 becomes lower. The offspring of trees with rapid growth and rapid development is also characterized by a vigorous growth in the roots and stems and by an intense absorption of P32. The offspring of the trees having both slow growth and development has slow growth and a weak absorption of P32. The trees with an average rate of growth and development produce offspring with average indices of root and stem growth and P32 intake. -- L. V. Neseemelov

Card 3/3



COUNTRY : U.S.S.R.  
 CATEGORY : Forestry, Forest Management  
 ABS. JOUR. : RZhBiol., No. 14 1959, No. 63208  
 AUTHOR : Vorobanov, P. V.  
 INST. : ---  
 TITLE : The Silvicultural Effectiveness of "Through Cuttings"

ORIG. PUB. : Lesn. kh-vo, 1957, No. 12, 17-21

ABSTRACT : As the basis of the maintenance cutting method proposed by the author, trees in pure even-aged stands are divided into 4 classes of growth and development. In the bottom canopy of the stand, trees of slow development belong to class I, trees of rapid development to class IV. In the upper canopy, trees of slow development belong to class II, those of speeded development to class IIIa, and those of rapid development to class IIIb. Deadwood and defective trees are culled. As the basis for selecting trees for cutting serve spheres of influence of the centers of lighting\* and the stumps with their spacing and diameters. First designated for cutting are trees of classes IIIb and IV; at the same time

Card:

1/3

COUNTRY :  
CATEGORY :

ABS. JOUR. : RZhBiol., No. 14 1959, No. 63208

AUTHOR :  
INST. :  
TITLE :

ORIG. PUB. :

ABSTRACT : the lighted growth is increased, the percent increment  
grows, and the absolute current growth in stock increases.  
--V. I. Klimov

\* "through cutting" is described as a thinning used for  
stands older than 40 years; the other term, "lighting",  
is described as a combination of pruning and improvement  
cutting on a young stand of weed species.7

Card: 3/3

TYURIN, Aleksandr Vladimirovich, prof., doktor sel'khoz. nauk; VOROPANOV,  
P.V., red.; GOROKHOV, M.G., red. izd-va; PARAKHINA, N.L., tekhn.  
red.

[Principles of variational statistics in forestry] Osnovy variatsion-  
noi statistiki v primenenii k lesovodstvu. Moskva, Goslesbuzmizdat,  
1961. 102 p. (MIRA 14:6)  
(Forests and forestry--Statistics)

VOROPANOVA, T.A.

Importance of wild birds for forestry and agriculture in  
Vologda Province. Uch. zap. VGPI 27:211-218 '62. (MIRA 16:8)  
(Vologda Province--Birds, Injurious and beneficial)

VOROPANOVA, T.A.

Feeding habits of forest birds and some characteristics of  
adaptive morphology. Uch. zap. VGPI 27:327-336 '62. (MIRA 16:8)

(Birds--Food) (Bill (Anatomy))

VOROPAY, A., polkovnik meditsinskoy sluzhby

Improve sanitary conditions for troops. Tyl i snab.Sov.Voor.Sil 21  
no.3:53-57 Mr '61. (MIRA 14:6)  
(Russia--Army--Sanitary affairs)

IVANOV, V., general-major meditsinskoy sluzhby; VOROPAY, A., polkovnik  
meditsinskoy sluzhby

Raise the requirements in supplying medical services to troops.  
Tyl.i snab.Sov.Voor.Sil 21 no.5:61-66 My '61. (MIRA 14:8)  
(MEDICINE, MILITARY)

BUZINIYER, M.I.; VOROPAY, A.P.; DRUGOV, I.P.; YEVDOKIMOV, I.I.; KANTOR,  
V.V.; KOMARNITSKIY, Yu.A.; MAKSHENKO, I.I.; PAVLOVSEIY, V.V.;  
CHEREDNICHENKO, Ye.T.; PATSYEV, P.Ya., red.; VERINA, G.P.,  
tekhn.red.

[Socialist competition in railroad transportation; collected  
articles] Sotsialisticheskoe sorevnovanie na zheleznodorozh-  
nom transporte; sbornik statei. Moskva, Gos.transp.shel-dor.  
izd-vo, 1959. 222 p. (MIRA 12:12)  
(Railroads)



VOROPAY, A.P.; ASHIN, G.K.; GONCHARUK, S.I.; MAKSIMENKO, I.I.;  
SUSLYAYEVA, Ye.L.; SHEMANIN, G.M.; SHEMENEV, G.I., band.  
filos.nauk, red.; FATEYEV, P.Ya., retsenzent; VOLKOV,  
P.S., retsenzent; PESKOVA, L.N., red.; BOBROVA, Ye.A.,  
tekh. red.

[Communist labor of railroad workers] Kommunisticheskiy trud  
zheleznodorozhnikov. Moskva, Transzheldorizdat, 1962. 72 p.  
(MIRA 15:7)

(Railroads--Employees) (Socialist competition)

VOROPAY, A.B.; VYZHEKHOVSKAYA, M.F.; DRUGOV, I.P.; KOMARNITSKIY, Yu.A.;  
MAKSIMENKO, I.I.; PAVLOVSKIY, V.V.; STEPANOV, D.A.;  
CHEREDNICHENKO, Ye.T.; GANKIN, M.B., retsenzent; FATEYEV,  
P.Ya., retsenzent; PESKOV, L.N., red.; DROZDOVA, N.D., tekhn.red.

[Competition for communist labor in railroad transportation]  
Sorevnovanie za kommunisticheskiy trud na zheleznodorozhnom  
transporte. Moskva, Transzheldorizdat, 1963. 158 p.  
(MIRA 16:9)

(Socialist competition) (Railroads—Employees)

VOROPAY, A. P.

Increase of labor productivity and tasks of trade union  
committees. Zhel. dor. transp. 45 no.1:10-14 Ja '63.  
(MIRA 16:4)

1. Sekretar' Tsentral'nogo komiteta professional'nogo soyuza  
rabochikh zheleznodorozhnogo transporta.

(Trade unions)

(Railroads—Labor productivity)

VOROPAY, A.V., podpolkovnik meditsinskoy sluzhby

Work practice of a medical center. Voen.-med. zhur. no.6:71-73  
Je '56. (MIRA 9:9)

(MEDICINE, MILITARY)

VOROPAY, A.V., podpolkovnik meditsinskoy sluzhby

Conference on problems of health education. Voen.-med. zhur. no. 7:  
93-94 J1 '56. (MLRA 9:11)  
(MILITARY HYGIENE)

VOROPAY, A.V., polkovnik meditsinskoy sluzhby

~~Use of visual aids in health publicity.~~ Voenn.med.zhur. no.2:4-6 F  
'58. (MIRA 11:4)

(HEALTH EDUCATION  
use of visual aids)

SOV/177-58-2-18/21

17(6)

AUTHOR:

Voropay, A.V., Colonel in the Medical Service

TITLE:

On the Use of Visual Aids in Sanitation Propaganda

PERIODICAL:

Voyenno-meditsinskiy zhurnal, 1958, Nr 2, pp 84-86 (USSR)

ABSTRACT:

This article deals with the use of visual training aids in preparing troops to cope with disease and injury, and in the maintenance of their health, and describes many of the pamphlets, leaflets, films and other media for this purpose developed by the professorial-instructorial staff of the Military-Medical Academy of the Order of Lenin imeni S.M. Kirov, scientific collaborators of the Military-medical Museum, and physician-specialists of other medical institutions. Several brochures are described: "Flu and its Prevention", "A Number of Gastric-Intestinal Illnesses and their Prevention", "What to Know about Radioactive Substances and Protection from them in Combat", "What to Know about Radiation, a. Sickness", "First Aid to the Wounded in the Soviet Army", "Wounds, Burns, and Contusions", "How to Stop Haemorrhage in Injury to the Blood Vessels of the Extremities", and "Hygiene under Camp Billeting Conditions and the Training of Troops". The author refers to

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On the Use of Visual Aids in Sanitation Propaganda

a large number of popular-scientific and health education titles published by "Medgiz" and the Central Institute for Sanitation Education. He also discusses the effective use of visual aids (e.g. photographic displays). The "Aid for Sanitation Education in the Soviet Army, and Navy (Voyenizdat, 1956), and a manual, "Sanitation Education in the Soviet Army, and Navy", Voenno-meditsinskiy Muzey, 1957 are also cited.

Card 2/2



VOROPAY, A.V., polkovnik med. sluzhby

Health education in military hospitals. Voen.-med. zhur. no.1:  
25-30 Ja '59. (MIRA 12:3)

(HEALTH EDUCATION

in Russia, in military hosp. (Rus))

(HOSPITALS,

in Russia, health educ. in military hosp. (Rus))

VOROPAY, A.V., polkovnik meditsinskoy sluzhby

Instruction in the principles of health education at higher institutes of military medicine. Mat. dlia prep. san. prosv. v med.  
inst. no.5:30-32 '59. (MIRA 13:12)

1. Glavnoye meditsinskoye upravleniye Ministerstvo oborony.  
(HEALTH EDUCATION)

VOROPAY, A.V., polkovnik meditsinskoy sluzhby

Achievement award in medical services. Voan.-med. zhur. no.8:17-19  
Ag '60. (MIRA 14:7)

(MEDICINE, MILITARY)

VOROPAY, A.V., polkovnik meditsinskoy sluzhby

Shock workers of communist labor are the best hospital workers.  
Voen.-med.zhur. no.9:12-15 S '61. (MIRA 15:10)  
(HOSPITALS, MILITARY)

YOROPAY, I. I.

Physicogeographical regions in the Kuda River basin (southwestern  
cis-Baikal region). Nauch.dokl.vys.shkoly; geol.-geog.nauki no.2:  
198-205 '58. (MIRA 12:2)

1. Chernovitskiy universitet, geograficheskiy fakul'tet, kafedra  
fizicheskoy geografii.

(Kuda Valley--Physical geography)

VOROPAY, L.I., KUNTISA, N.C.

Erosion processes in the middle Dalester Valley. Vest. Mosk.  
un. Ser. 5: Geog. 20 no.5:18-25 S-O '65. (MIRA 18:12)

1. Geograficheskii fakul'tet Chernovitskogo gosudarstvennyy  
universiteta. Submitted December 12, 1964.

VOROPAY, N.M., inzh.; OSICHEV, V.P., inzh.; RUSAKOV, G.M., inzh.

Welding armature bodies for large electric motors. Svar.proizv.  
no.11:33-34 N '62. (MIRA 15:12)

1. Khar'kovskiy zavod "Elektrotyazhmash" im. V.I. Lenina.  
(Electric motors--Welding)

L 3500-66 EWT(m)/EWP(v)/T/EWP(t)/EWP(k)/EWP(b)/EWA(c) JD/HM

ACCESSION NR: AP5023083

UR/0125/65/000/009/0042/0046

621.791:546(621+56)

45  
40  
B

AUTHOR: Rabkin, D. M. (Doctor of technical sciences); Voropay, N. M. (Engineer)

TITLE: Welding of aluminum with copper

SOURCE: Avtomaticheskaya svarka, no. 9, 1965, 42-46

TOPIC TAGS: welding technology, silver solder, aluminum, copper, metal physical property, electric conduction

ABSTRACT: A literature survey of methods of obtaining permanent Al-Cu joints by pressure and fusion welding is presented. Pressure welding is the most widely used technique in such cases. Thus, for example, aluminum busbars can be reinforced with copper cover plates under a pressure of 8-10 kg/mm<sup>2</sup>. The explosion welding of aluminum tubes (6 mm in diameter and 2 mm in thickness) with copper tubes requires a pressure of 11.6 kg/mm<sup>2</sup> with an extreme v-shape weld. The explosion welding of copper plates with aluminum tubes is also possible. The explosion welding of aluminum with copper with the formation of a brittle intermediate zone is applicable only for thin weld

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L 3500-66

ACCESSION NR: AP5023083

ments. The production of bimetal Al-Cu sheets (cladding) is based on cold welding with simultaneous reduction in area by rolling. The welding of compact and hollow cylinders of Al with cylinders of Cu can be accomplished by friction welding. Other methods employed are: resistance spot welding, resistance butt welding, percussion welding, argon-arc welding, thermit welding. The physical properties and electric conduction of the Cu-Al compounds welded by the methods described above are, however, relatively low, owing to the presence of brittle intermetallic phases in the weld joint. This may be remedied to a large extent by depositing silver solder on the surface of copper prior to the welding. But the scarcity of silver limits the applicability of this technique. The whole survey shows that at present there exists no method that meets practical requirements. Hence, the development of new methods of pressure and fusion welding of aluminum with copper remains an urgent problem. Orig. art. has: 4 figures, 1 table.

ASSOCIATION: Institute electrosvar'ki im. Ye.O. Patona AN UkrSSR (Electric Welding Institute, AN UkrSSR)

SUBMITTED: 23Mar65

ENCL: 00

SUB CODE: IE, MM

NO REF SOV: 010

OTHER: 031

Joining of dissimilar metals

VOROPAY, P. I.

PHASE I BOOK EXPLOITATION

SOV/6357

Bobrov, Nikolay Nikolayevich, and Petr Ivanovich Voropay

Primeneniye topliva i smazochnykh materialov (The Use of Fuels and Lubricants) Moscow, Gostoptekhizdat, 1962. 346 p. Errata slip inserted. 8180 copies printed.

Managing Ed.: M. M. Novikova; Tech. Ed.: V. V. Voronova; Ed. (title page): N. N. Bobrov.

PURPOSE: This textbook is intended primarily for students of nontechnical fields in petroleum institutes. It may also be used in other educational institutions.

COVERAGE: The physical and chemical properties of fuels and lubricants and their effect on the operation of engines, transmissions, etc. are described. Basic problems in the theory and design of engines and machinery are briefly reviewed with respect to fuels and lubricants and

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1/2

The Use of Fuels and Lubricants

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their quality requirements. The characteristics of the liquid propellants T-1, TC-1, T-2, and T-5 are given (Ch. 4). The following oxidizers are described in Chapter 5: 1) LOX; 2) nitric acid and its compounds; and 3) hydrogen peroxide. The following have shown good possibilities as oxidizers: 1) fluorine and its compounds; 2) ozone; and 3) oxygen-chlorine compounds. The following are analyzed: 1) hydrocarbon fuels; 2) methyl and ethyl alcohols; 3) anilins, xylofin, and triethylamine; and 4) hydrazine, methyl hydrazine, symmetrical dimethylhydrazine, and NDMH (hydrazine was used as fuel in German Me-163 aircraft). Some data are given on beryllium (solid), aluminum (solid), lithium (solid), boron (solid), pentaborane (liquid), decaborane (solid), trimethylaluminum (liquid), and dimethylberyllium.

TABLE OF CONTENTS [Abridged]:

Introduction

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VOROPAY, P.I.; ZHUKOV, G.V.; KAS'YANOV, V.M.; SHARPILO, I.G.

Air cooling in piston compressors by feeding water to an air flow.  
Mash. i nef. obor. no.7:30-33 '63. (MIRA 17:1)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im.  
akademika Gubkina i Upravleniye "Krasnodarneft".

VOROPAY, P.I.; ZHUKOV, G.V.; KAS'YANOV, V.M.

Cooling of air piston compressors by injecting water at the  
inlet. Mash. i nef. obor. no.6:11-18 '63. (MIRA 17:8)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti  
im. I.M. Gubkina.

VOROPAY, P.I.; SERDIY, A.G.

Use of water injection at the inlet of piston compressors  
to make them more economical. Mash. i nef. obor. no.8;  
43-46 '63. (MIRA 17:6)

1. Moskovskiy ordena Trudovogo Krasnogo Znameni institut  
neftekhimicheskoy i gazovoy promyshlennosti im. akademika  
Gubkina.

VOROPAY, P.I..

Moistening a working medium in heat engines and compressors.  
Gaz. delo no.10:19-23 '63.

(MIRA 17:4)

1. Moskovskiy ordena Trudovogo Krasnogo Znameni institut neftekhimicheskoy i gazovoy promyshlennosti imeni akademika I.M.Gubkina.

VOROPAY, P.I.; ZHUKOV, G.V.; KAS'YANOV, V.M.

Investigating the efficiency of cooling in feeding water to an air flow compressed by a rotor-gear pump. Mash. i nef. obr. no.10; 21-28 '63. (MIRA 17:4)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im. I.M.Gubkina.



VOROPAY, P.I., inzh.

Effective method for cooling air in piston compressors. Prom.  
energ. 18 no.12:24-29 D '63. (MIRA 17:1)

VOROPAY, P.I., inzh.; KYAYKIN, A.I., inzh.; MATVEYEV, B.M., mekhanik

Effectiveness of the humidification of air entering a piston-type  
compressor. Prom. energ. 19 no.11:26-30 N '64.

(MIRA 18:1)

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**"APPROVED FOR RELEASE: 03/14/2001**

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**APPROVED FOR RELEASE: 03/14/2001**

**CIA-RDP86-00513R001861010013-0"**

OVECHKIN, Ye.K.; GERASIMENKO, Ye.I.; GUSAKOVA, L.A.; Prinimali uchastiye:  
SHESTAKOVA, L.A.; KOTILEVSKIY, V.I.; VOROPAY, S.A.

Development of the technology of production of highly dispersed  
calcium carbonate. [Trudy] NIOKHIM 15:19-63 '63.  
(MIRA 18:2)

VOROPAYEV, A.

Teplovaia Depressiia Shakhtnoi Ventiliatsji (Heat Depression of Ventilation  
in Mines) (Paper edition)

231 p. 1.00

SO: Four Continent Book List, April 1954

VOROPAYEV, A. A.

Siberia - Wheat

Quality of the grain of prospective Siberian varieties. Sel. i ser. 20, No. 2, '53.

Monthly List of Russian Accessions, Library of Congress  
June 1953. UNCL.

VOROPAYEV, A. A.

25806. VOROPAYEV, A. A. Urozhaynost' i kachestvo sortov razli chnykh  
pereopylenii. Seleksiya i seredovishche, 1949, No. 2, p. 11-15

SO: Letopis' Zhurnal'nykh Statey, Vol. 34, Moskva, 1949



<sup>Y</sup>  
VOROPAEV. A. A.

25806

Uroshaynost' I Kachestvo sortov rshi pri dlitel'nom pereopylenii. Seleksiya  
isemenovod stvo, 1949, No. 8. s. 11-15.

SO: Letopis' No. 34

VOROPAYEV, A.F.

DOC TECH SCI

Dissertation: "Thermal Depression of Mine Ventilation."

7 October 49

Inst of Mining, Acad Sci USSR.

SC Vecheryaya Moskva  
Sum 71

VOROPAYEV, A. F.

20719. Voropayev, A.F. Termodinamicheskiy metod opredeleniya depressii estestvennoy tyagi v shakhtakh. Gornyy zhurnal, 1949, no. 7, s. 21-26

SO: IETOPIS ZHURNAL STATEY - Vol. 28, Moskva, 1949

VOROPAYEV, A. F.

23213 Vliyaniye teplovoy energii na dvizheniye vozduzha v.shakhtakh.  
Izvestiya akad. nauk sssr, otd-niye tekhn. nauk, 1969, No. 7, c. 1014-29

SO: LETOPIS' NO. 31, 1969

VOROPAYEV, A-I.

2392. PROBLEM OF COMBATING HIGH TEMPERATURES IN DEEP MINES.  
Voropayev, A.I. (Ussr (Coal), Dec. 1955, 12-16). This author also  
criticizes Ivanov's (see previous abstract) concepts of heat exchange  
between the mine air and the rock during the ventilation process. Tests  
show that heat emission from rock at a depth of 1,000 m (not taking into  
account the heat formed as a result of oxidation processes and petroleum  
evaporation), a short time after the driving of the roadway in question, and  
at an air speed of 5 to 6 m/sec, increases the temperature of the air by  
only 1 to 2°C per 1,000 m of roadway. Ivanov's suggestion with regard  
to the sinking of additional shafts to avoid excessive distances between  
working faces and pit bottoms is therefore rejected, but the importance of  
using non-flammable materials for airway supports in order to prevent heat  
formation through oxidation is emphasized. (L). H.C.E.

VOROPAYEV, A.F., professor, doktor tekhnicheskikh nauk.

Spontaneous reversal of air flow during mine fires. Ugol' 32 no.3:27-30  
Mr '57. (MIRA 10:5)

(Mine fires) (Air flow)

ABRAMOV, F.A., prof., doktor tekhn.nauk; BALTAYTIS, V.Ya., inzh.;  
BARON, L.I., doktor tekhn.nauk; BATALIN, S.A., dotsent, kand.  
tekhn.nauk; BYKOV, L.N., prof., doktor tekhn.nauk; VESELOVSKIY,  
V.S., prof., doktor tekhn.nauk; VLADIMIRSKIY, V.V., kand.tekhn.  
nauk [deceased]; VORONIN, V.N., doktor tekhn.nauk [deceased];  
VORONINA, L.D., kand.tekhn.nauk; VOROPAYEV, A.F., prof.,dokt.tekhn.  
nauk; ZHUKOV, G.I.; KOMAROV, V.B., prof., doktor tekhn.nauk;  
KRICHEVSKIY, R.M., kand.tekhn.nauk; KSENOFONTOVA, A.I., dotsent,  
kand.tekhn.nauk; LIDIN, G.D., doktor tekhn.nauk; MILETICH, A.F.,  
dotsent, kand.tekhn.nauk; MUSTEL', P.I., dotsent, kand.tekhn.  
nauk; NOVIKOV, K.P., kand.tekhn.nauk; OGIEVSKIY, V.M., prof.,  
doktor tekhn.nauk [deceased]; POLESIN, Ya.L., inzh.; RIPP, M.G.,  
dotsent, kand.tekhn.nauk; SOBOLEV, G.G., inzh.; SOLOV'YEV, P.M.,  
inzh.; SUKHAREVSKIY, V.M., kand.tekhn.nauk; KHEYFITS, S.Ya.,dotsent,  
inzh.;  
(Continued on next card)

ABRAMOV, F.A.---(continued) Card 2.

kand.tekhn.nauk; KHODOT, V.V., kand.tekhn.nauk; SHCHERBAN',  
A.N.; TERPIGOREV, A.M., glavnyy red.; SKOCHINSKIY, A.A., otv.  
red.toma; ZAYTSEV, A.P., zam. otv.red.toma; BOBROV, I.V., red.  
toma; KOMAROV, V.B., red.toma; SIRYACHENKO, F.N., red.toma;  
VARZIN, A.V., kand.tekhn.nauk, red.toma; KLIMANOV, A.D., dots.,kand.  
tekhn.nauk, red.toma; KRIVONOGOV, K.K., inzh., red.toma; NEUYMIN,  
I.N., inzh., red.toma; TITOV, N.O., doktor tekhn.nauk, red.toma;  
CHIZHOV, B.D., kand.tekhn.nauk, red.toma; ONEDIN, V.Ye., red.  
izd-va; NIKOLAYEV, V.F., red.isd-va; BASHEVA, T.A., red.isd-va;  
PROZOROVSKAYA, V.L., tekhn.red.

[Mining; an encyclopedic dictionary] Gornoe delo; entsiklope-  
dicheskiy spravochnik. Glav.red. A.M.Terpigorev. Chleny glav.  
red.: A.I.Barabanov i dr. Moskva, Gos.nauchno-tekhn.isd-vo lit-ry  
po ugol'noi promyshl. Vol.6. [Mine atmosphere and ventilation;  
controlling dust, gases, and fires; mine rescue work] Rudnichnaya  
atmosfera i ventiliatsiya; Bor'ba s pyl'iu, gazami i pozharami;  
Gornospasatel'noe delo. Redkollegiya toma: A.A.Skochinskiy i dr.  
1959. 375 p. (MIRA 12:6)

1. Chlen-korrespondent AN USSR (for Shcherban').  
(Mine ventilation) (Mine rescue work)



BUCHNEV, V.K., prof., doktor tekhn. nauk; KALININ, R.A., dotsent; KORABLEV, A.A., kand. tekhn. nauk; MONIN, G.I., inzh.; BELYAYEV, V.S., kand. tekhn. nauk; MERKULOV, V.Ye., inzh.; ALEKSEYENKO, V.D., inzh.; IL'SHTEYN, A.M., kand. tekhn.nauk; GELESKUL, M.N., kand. tekhn.nauk; KOBISHCHANOV, M.A., kand. tekhn.nauk; DOBROVOL'SKIY, V.V., kand. tekhn. nauk; MALYSHEV, A.G., inzh.; VOROPAYEV, A.F., prof., doktor tekhn. nauk; LIDIN, G.D., prof., doktor tekhn.nauk; TOPCHIYEV, A.V., prof.; VEDERNIKOV, V.I., kand. tekhn.nauk; KUZ'MICH, I.A., kand. tekhn. nauk; LEYTES, Z.M., inzh.; SYSOYEVA, V.A., kand. tekhn. nauk; MELAMED, Z.M., kand. tekhn.nauk; CHERNAVKIN, N.N., inzh.; KARPILOVICH, M.Sh., inzh.; MEL'KUMOV, L.G., inzh.; BOGOPOL'SKIY, B.Kh., inzh.; FROLOV, A.G., doktor tekhn.nauk; KHVOSTOV, F.K., inzh.; BAGASHEV, M.K., kand. tekhn. nauk; KAMINSKIY, I.N., inzh.; PETROVICH, T.I., inzh.; ZHUKOV, V.V., red. izd-va; LOVILINA, L.N., tekhn. red.; PROZOROVSKAYA, V.L., tekhn. red.

[Mining engineers' handbook] Spravochnik gornogo inzhenera.

Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1960.

(MIRA 14:1)

(Mining engineering--Handbooks, manuals, etc.)

VOROPAYEV, Aleksandr Frolovich; KREMNEV, O.A., doktor tekhn. nauk,  
retsensent; CHIZHOV, B.D., otv. red.; RATNIKOVA, A.P., red.  
izd-va; SHKLYAR, S.Ya., tekhn. red.

[Temperature control in deep mines] Upravlenie teplovym re-  
zhimom v glubokhikh shakhtakh. Moskva, Gos. nauchno-tekhn.  
izd-vo lit-ry po gornomu delu, 1961. 246 p. (MIRA 15:2)  
(Mine ventilation) (Heat--Transmission)

VOROPAYEV, A.F., doktor tekhn.nauk; LUK'YANOV, Yu.P., inzh.;  
KRIVORUCHKO, A.M., inzh.

Study of heat emission from oxidation processes in Donets Basin  
mines. Trudy Sem.po gor.teplotekh. no.4:53-56 '62.

(MIRA 15:8)

1. Khar'kovskiy gornyy institut.  
(Mine ventilation)

VOROPAYEV, A.F., doktor tekhn.nauk.

Heat parameters of a ventilating current in an evenly workable  
mining area. Trudy Sem.po gor.teplotekh. no.4:25-28 '62.

(MIRA 15:8)

1. Khar'kovskiy gornyy institut.  
(Mine ventilation)

L 00650-67 EWT(m)/T/EWP(t)/ETI IJP(c) GD/JD

ACC NR: AT6016346

(N)

SOURCE CODE: UR/0000/65/000/000/0104/0109

AUTHORS: Kunin, N. F.; Zhilik, K. K.; Voropayev, A. G.; Samokhval, V. V.

ORG: Belorussian State University im. V. I. Lenin (Belorusskiy gosudarstvennyy universitet)

TITLE: Thermal treatment of silver, copper, and tin vacuum condensates

SOURCE: AN UkrSSR. Podvizhnost' atomov v kristallicheskoj reshetke (Mobility of atoms in crystal lattice). Kiev, Izd-vo Naukova dumka, 1965, 104-109

TOPIC TAGS: ~~thin~~ metal film, silver, copper, tin, metal, heat treatment, activation energy

ABSTRACT: The laws for stabilizing the properties of silver, tin, and copper thin films are investigated in order to remove the data scatter in their properties caused by the method of film preparation and to study the nature of the defects present in the freshly deposited films. The films were deposited on a glass substrate at room temperature in a  $10^{-4}$  mm Hg vacuum. After deposition, the metal films were spontaneously aged at room temperature for 50 hrs during which time their resistance decreased gradually. The heat treatment for tin was made at 150C in hydrogen as well as in air, without an irreversible change in its resistance. The heat treatment for silver was at 70--120C and for copper at 150--200C. The results are shown on graphs and tables. Plots are given of resistance versus time, relative change in film resistance versus

Card 1/2

L 00650-67

ACC NR: AT6016346

time, activation energy as a function of temperature, and curves of resistivity versus film thickness. The results show that in freshly deposited silver and copper films there exist many structural defects with widely varying spectra of activation energies. Also, the heat treatment stabilizes the film properties of all three metals. Orig. art. has: 4 formulas, 4 figures, and 2 tables.

SUB CODE: 11/ SUBM DATE: 10Nov64/ ORIG REF: 003/ OTH REF: 002

Card 2/2 pb

L 00007-07

ACC NR: AP6035481

SOURCE CODE: HU/0028/66/013/001/0053/0058

VOROS-FELKAI, Gyorgyi, National Institute of Public Health [original-language version not given] in Budapest (Director: BAKACS, T.).

14  
B

"Incidence of Rhodotorula Species in Urban Air"

Budapest, Acta Microbiologica Academiae Scientiarum Hungaricae, Vol 13, No 1, 2 Jun 1966, pp 53-58.

**Abstract:** [English article] Rhodotorula and Cryptococcus were the most commonly encountered yeast species in the pollution of air over Budapest. No seasonal difference was observed in the incidence of the 100 Rhodotorula strains isolated, representing 12 species. Of the isolated strains, 34% belonged to Rhodotorula glutinis, 26% to Rhodotorula mucilaginosa, 16% to Rhodotorula rubra, and 11% to Rhodotorula minuta. The incidence data and some morphological information was presented in tabular form. Orig. art. has: 1 table. [JPRS: 36,834]

TOPIC TAGS: saccharomyces, air pollution

SUB CODE: 06 / SUBM DATE: 20Nov65 / ORIG REF: 005 / OTI REF: 019

Card 1/1 fv

0921 2200

IOVLEV, Aleksey Mikhaylovich, polkovnik, kandidat istoricheskikh nauk;  
VOROPAYEV, Dmitriy Antipovich, podpolkovnik, kandidat istoricheskikh  
nauk; LYALIKOV, B.S., polkovnik, redaktor; SLEPTSOVA, Ye.N., tekhnicheskii  
redaktor

[The struggle of the Communist Party in building up military cadres  
(1918-1941)] Bor'ba Kommunisticheskoy partii za sozdanie voennykh  
kadrov (1918-1941 gg.). Moskva, Voen.izd-vo Ministerstva obor. SSSR,  
1956: 118 p. (MLRA 9:7)  
(Russia--Army--History)



VOROPAYEV, B.P.

VOROPAYEV, B.P., tekhnik.

Automatic switching in and off of air-heating radiators. Energetik  
5 no.12:14-15 D '57. (MIRA 10:12)

(Radiators)

VOROPAYEV, G.V., Cand Tech Sci — (diss) "Technical economic  
substantiation of water <sup>MANAGEMENT</sup> ~~economy~~ measures. (On the example of Volga <sup>4</sup> ~~4~~ <sup>10</sup>  
irrigation system)." Mos, 1959. with graphs (Min of Agriculture.  
Mos Inst of Engineers of Water <sup>Geodesy</sup> ~~economy~~ in V.R. Vil'yams).  
150 copies (KL, 39-59, 104)

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VOROPAYEV, A.S.; POPOV, F.I.

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